

1 2 3 4 5 M 6 7 8 9 10 M
A B A B A B A B A B A B A B A B A B

bp

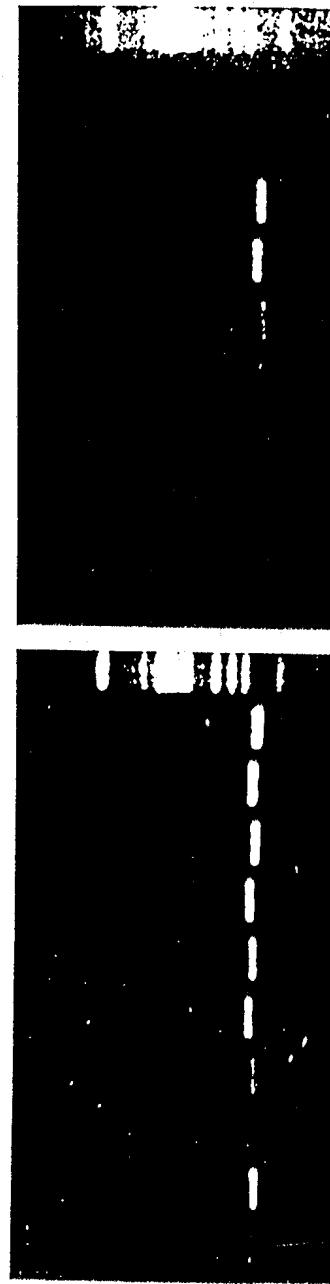


FIG. 1

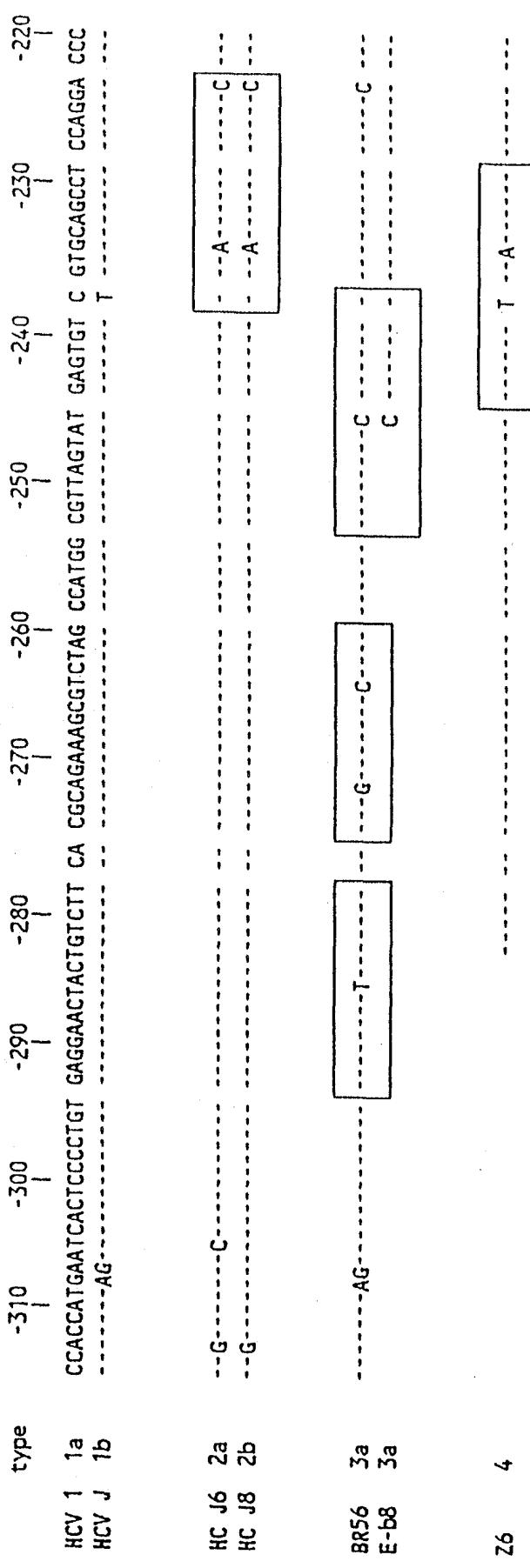


FIG. 2A

type	-140	-130	-120	-110	-100	-90	-80	-70	-60
HCV1 1a	TCTTG	GA.TCAACCC	GCTCAAT	GCCTGGAGA	T	TTGGCGTGCCT	CCGC	AAGACTGCTAGC	CGAG TAGGTGGTCGCGA AAGGCCCTTG GGT
HCV1 1b	-----	-----	-----	-----	-----	G-----	-----	-----	-----
HCJ6 2a	-----	-----	-----	-----	-----	-----	-----	C-----T	-----
JP62 2a	-----	-----	-----	-----	-----	-----	-----	C-----T	-----
GB81 2a	-----	-----	-----	-----	-----	-----	-----	C-----T	-----
HCJ8 2b	-----	-----	-----	-----	-----	-----	-----	C-----T	-----
BR56 3a	-----	-----	-----	-----	-----	-----	-----	G-----TCA	-----
E-b8 3b	-----	-----	-----	-----	-----	-----	-----	G-----TCA	-----
Z6 4	-----	-----	-----	-----	-----	-----	-----	G-----TCA	-----
BU79 4	-----	-----	-----	-----	-----	-----	-----	G-----TCA	-----
BU74 4	-----	-----	-----	-----	-----	-----	-----	G-----TCA	-----
GB80 4	-----	-----	-----	-----	-----	-----	-----	G-----TCA	-----
	15,16	-----	-----	-----	-----	-----	-----	20	-----
	24,25	10,12	-----	-----	-----	-----	-----	-----	-----
	26	-----	-----	-----	-----	-----	-----	-----	-----
	6	-----	-----	-----	-----	-----	-----	-----	-----
	7	-----	-----	-----	-----	-----	-----	-----	-----
	8	-----	-----	-----	-----	-----	-----	-----	-----
	14	-----	-----	-----	-----	-----	-----	-----	-----
	15	-----	-----	-----	-----	-----	-----	-----	-----
	16	-----	-----	-----	-----	-----	-----	-----	-----
	17	-----	-----	-----	-----	-----	-----	-----	-----
	18	-----	-----	-----	-----	-----	-----	-----	-----
	19	-----	-----	-----	-----	-----	-----	-----	-----
	20	-----	-----	-----	-----	-----	-----	-----	-----
	21	-----	-----	-----	-----	-----	-----	-----	-----

FIG. 2B

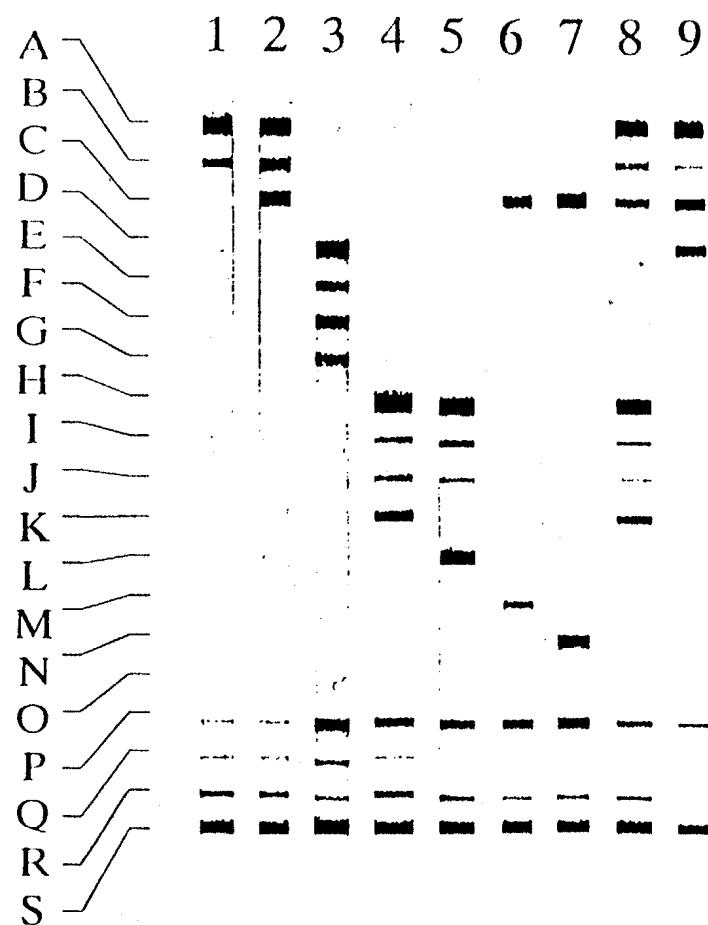


FIG. 3

Iso-late	Type	-240	-230	-220	-180	-170	-160	-150	-140	Accession number	ref.
HCV-1	1a	GAGTGTCGTGAGGCTCCAGGACCC*		AGTACACCGGAATTGCCAGGACCGACGGTCTTC.						SEQ ID NO 61	
HCV-J	1b	-	T-	*						SEQ ID NO 62	
BE82	1b	-	-	*							
BE90	1b	-	-	T*							
											28
HC-J6	2a	-	A-	C	-*		G	-A-	T		A. --
HC-J8	2b	-	A-	C	-*		A	-G	A-A-	T	A. --
BE91	2b	-	A-	C	-*		A	-G	A-A-	T	A. --
											32
BE92	2c	-	A-	C	-*		A	-T			A. --
											33
BR56	3a	-	C	-*		C	-TG	-GT		G. --	5
BE93	3a	-	C	-*		C	-TG	-GT		G. --	SEQ ID NO 65
BE94	3a	-	C	-*		C	-TG	-GT		G. --	SEQ ID NO 66
HCV-TR	3b	-	C	-*		C	-G	-T		A. --	6
BE98	3c	-	*			C	-G	-TT		A. -T-	SEQ ID NO 80
											54

FIG. 4A-1

Iso-late	Type	Accession number						ref.
		-240	-230	-220	-180	-170	-160	
GB48	4a	-	T-A	*		C-G-T		SEQ ID NO 67
GB116	4a	-	T-A	*		C-G-T		SEQ ID NO 68
GB569	4a	-	T-A	*		C-G-T		SEQ ID NO 69
GB358	4a	-	T-A	*		C-G-T		SEQ ID NO 70
							A.-	A.-
Z1	4b	-	T-A	*	C-G-T			38
CAM600	4C	-	T-A	*	C-GA-T			SEQ ID NO 72
CAM736	4C	-	T-A	*	C-GA-T			SEQ ID NO 73
GB809	4C	-	T-A	*	C-GA-T			SEQ ID NO 74
Z4	4C	-	T-A	*			42	
DK13	4d	-	T-A	*	C-G-T			
GB549	4e	-	T	*	T-C-G		A-A--	SEQ ID NO 71
GB438	4f	-	A	-	T-C-G-T		ATC--	SEQ ID NO 81
GB724	4g	-	A	*	T-C		T--	SEQ ID NO 76
BE97	4g	-	T-A	*				SEQ ID NO 77
GB487	4h	-	T-A	*				SEQ ID NO 75

FIG. 4A-2

Iso- late	Type	Accession number ref.			
		-240	-230	-220	-180
SA1	5a	AA	*	G	T
BE95	5a	AA	*	G	T
BE96	5a	AA	44	45	47
HK1	6a	A	C	T	CA
HK2	6?	A	C	T	CA

FIG. 4A-3

Isolate	Type	-130	-120	-110	-100	-90	-80	-70	Accession number reference
HCV-1	1a	CCC GCT CAAT GCG CCT GGAG AT TGG GCG TGG CCA AGACT GCT AG CGAG TGT GGG TCG CGA							31
HCV-J	1b			G					2
BE82	1b			G					
BE90	1b		G	G					
HC-J6	2a		A	T	C	T	C	T	3
HC-J8	2b		A	T	C	AC	C	T	4
BE91	2b		A	T	C	T	C	T	
BE92	2c		A	T	TC		C	T	
						34			
BR56	3a		A	CA	A		G	TCA	5
BE93	3a		A	CA	C		G	TCA	
BE94	3a		A	CA	C		TCA		35
HCV-TR	3b			C	A		G	TCA	36
									6

FIG. 4B-1

Isolate	Type	-130 ↓	-120 ↓	-110 ↓	-100 ↓	-90 ↓	-80 ↓	-70 ↓	Accession number reference
GB48	4a	-----	C-A	-----	-----	-----	-----	-----	
GB116	4a	-----	C-A	-----	-----	-----	-----	-----	
GB569	4a	-----	C-A	-----	-----	-----	-----	-----	
GB358	4a	-----	C-A	-----	-----	-----	-----	-----	
GB549	4e	-----	C-CA	-----	-----	-----	-----	-----	
CAM600	4C	-----	TC-A	-----	-----	-----	-----	-----	
CAM736	4C	-----	TC-A	-----	-----	-----	-----	-----	
GB809	4C	-----	TC-A	-----	-----	-----	-----	-----	C
GB487	4h	-----	A	-----	41	-----	-----	-----	
GB724	4g	-----	A	-----	-----	-----	-----	-----	
BE97	4g	-----	A	-----	-----	-----	-----	-----	
SA1	5a	-----	C	-----	-----	-----	-----	-----	
BE96	5a	-----	C	-----	-----	-----	-----	-----	
BE95	5a	-----	C	-----	-----	-----	-----	-----	
HK1	6a	-----	-----	-----	-----	46	-----	-----	7
BE98	3C	-----	C-A	-----	-----	-----	-----	-----	8
GB438	4f	-----	C-A	-----	-----	-----	-----	-----	

FIG. 4B-2

FIG. 5A

09/899302

SEQ ID NO

101	
HCV-1	SAGVQEDAASLRA
HC-J1	-----
HCV-H	-----
HCV-J	---T---A---
HCV-JK1	---T-----V
HCV-CHINA	---T-----V
HCV-T	---T-----V
HC-J4.91	---T-----A---
HCV-TA	---T-----V
HCV-JT	---T-----V
HCV-BK	---T-----V
BE90	---T-----V
HC-J6	-Q-TE--ERN---
HC-J8	-Q-NE--ERN---
BE91	-Q-NE--ERN---
BE92	-Q-TE--ERN---
T1	-D--D--R-A---
T7	-D--D--RTA---
BE93	-D--D--R-A---
T9	-C~E--R-A---
T10	-C--E--R-A---
GB48	-D--E--KRP-G-
GB116	-D--E--KRA-G-
GB215	-D--E--KRA-GV
GB358	-D--E--KRA-G-
GB549	-G--E---RA---
GB809	-G--E--KRA-G-
BE95	-Q-TH--E-----
CHR18	-Q-TH--K-----

FIG. 5B

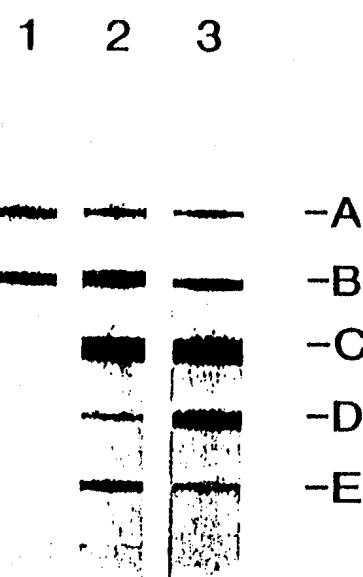


FIG. 6

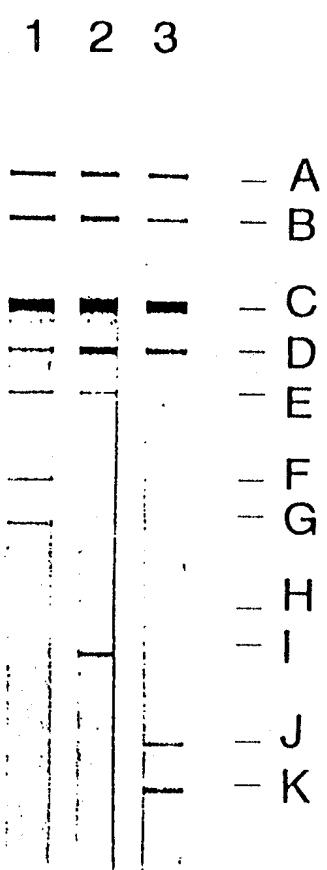


FIG. 7

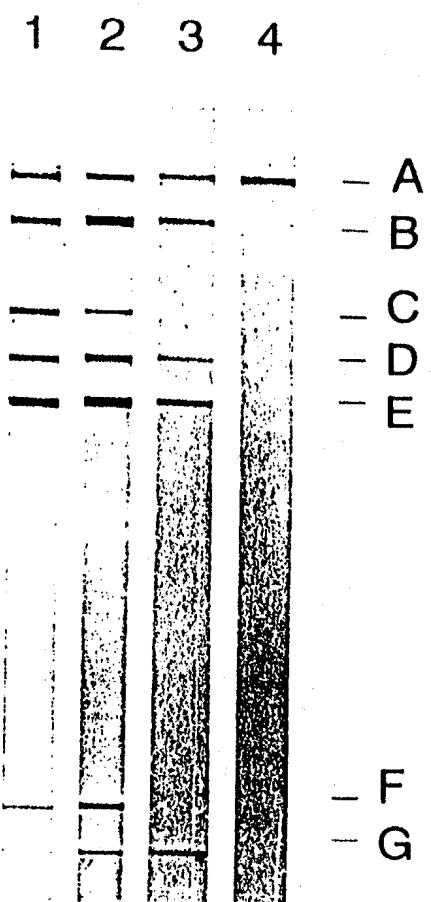


FIG. 8

1 2

— — — A
— — — B
44 — — — C
45 — — — D
46 — — — E
31 — — — F
7 — — — G



FIG. 9

1 2

— — — A
— — — B
— — — C
— — — D
— — — E
— — — F
— — — G
— — — H
— — — I
— — — J

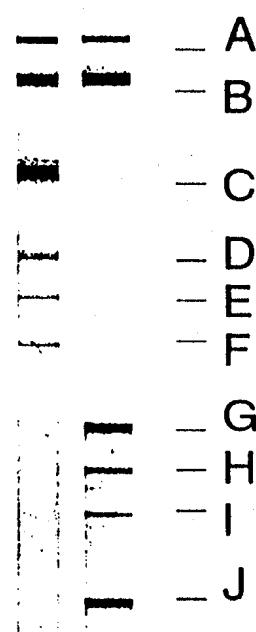


FIG. 10